Customer No. 01933

Application No. 10/043,404 Response to Final Office Action

Listing of Claims:

5

10

5

1. (Currently Amended) A power supply system which generates supply electric power to drive a load using power generation fuel, said power supply system comprising:

a fuel charged portion in which the power generation fuel is charged;

power generating means for generating power generation electric power by using the power generation fuel;

output controlling means for operating and stopping the power generating means according to a consumption of power due to based on a drive state of the load; and

start-up controlling means for supplying start-up electric power used for operating the output controlling means to the output controlling means.

2. (Previously Presented) The power supply system according to claim 1, wherein the start-up controlling means supplies electric power independent from the operation of the power generating means to the output controlling means as the start-up electric power at the time of starting up the power generating means, and supplies electric power based on the power generation electric power generated by the power generating means to the

5

5

Customer No. 01933

output controlling means as the start-up electric power after starting up the power generating means.

- 3. (Original) The power supply system according to claim 1, wherein the start-up controlling means includes switching means for switching supply paths of the start-up electric power to the output controlling means at the time of starting up the power generating means and after starting up the power generating means.
- 4. (Original) The power supply system according to claim 1, wherein the start-up controlling means includes a start-up power supply portion which holds predetermined electric power independently from the operation of the power generating means, and supplies the electric power from the start-up power supply portion to the output controlling means as the start-up electric power at the time of starting up the power generating means.
- 5. (Original) The power supply system according to claim 4, wherein the start-up power supply portion includes a primary cell.
- 6. (Previously Presented) The power supply system according to claim 4, wherein the start-up power supply portion includes

5

5

5

Customer No. 01933

electric power charged and held by electric power supplied from outside of the power supply system prior to the start-up operation of the power generating means.

- 7. (Original) The power supply system according to claim 1, wherein the start-up controlling means includes an auxiliary electric power holding portion which charges a part of the power generation electric power generated by the power generating means, and supplies charge electric power of the auxiliary electric power holding portion to the output controlling means as the start-up electric power after starting up the power generating means.
 - 8. (Original) The power supply system according to claim 1, wherein the power generating means includes a fuel cell which generates the power generation electric power by an electrochemical reaction using the power generation fuel supplied from the fuel charged portion.
 - 9. (Original) The power supply system according to claim 8, wherein the fuel cell is a fuel reforming type fuel cell including a fuel reformer which reforms the power generation fuel and extracts a specific component, a fuel electrode to which the

Customer No. 01933

Application No. 10/043,404 Response to Final Office Action

5

- specific component is supplied, and an air electrode to which oxygen in air is supplied.
 - 10. (Previously Presented) The power supply system according to claim 1, wherein the fuel charged portion is detachable.
 - 11. (Previously Presented) The power supply system according to claim 1, wherein the power supply system is modularized and configured such that a physical outside shape of the power supply system has a shape and dimensions which are substantially equivalent to a shape and dimensions of a corresponding general-purpose chemical cell.
 - 12. (Original) The power supply system according to claim 11, wherein the power supply system has a double-electrode terminal structure.
 - 13. (Previously Presented) An electronic device connected to the power supply system according to claim 1, wherein the load operates with the supply electric power supplied from the power supply system.

5

5

10

Customer No. 01933

- 21. (Original) The power supply system according to claim 16, further including supply electric power generating means for generating the supply electric power, based on held electric power held in the electric power holding means.
- 22. (Original) The power supply system according to claim 21, wherein the supply electric power generating means includes voltage converting means for generating the supply electric power having a predetermined voltage from the held electric power in the holding means.
- 23. (Previously Presented) The power supply system according to claim 16, wherein the fuel charged portion is detachable.
- 24. (Previously Presented) The power supply system according to claim 16, wherein the system controlling means comprises:

output controlling means for operating and stopping the power generating means by controlling supply and shutoff of the power generation fuel to the power generating means;

a voltage monitor/control portion which outputs a first control signal which monitors a voltage component of the held electric power in the electric power holding means and controls start-up and stop of the power generating means in accordance

15

5

5

Customer No. 01933

with a change in the voltage component, and a second control signal which controls the charging and stops the charging with respect to the electric power holding means; and

start-up controlling means for controlling supply of start-up electric power used for operating the output controlling means and controlling an operation state of the power generating means based on at least the first control signal from the voltage monitor/control portion.

- 25. (Original) The power supply system according to claim 24, wherein the voltage monitor/control portion at least outputs the first control signal used for controlling the power generating means to stop when a voltage of held electric power in the electric power holding means has reached a predetermined upper limit value, and the first control signal used for controlling the power generating means to start up when a voltage of held electric power in the electric power holding means has reached or become lower than a predetermined lower limit value.
 - 26. (Previously Presented) The power supply system according to claim 24, wherein the start-up controlling means supplies a part of the held electric power in the electric power holding means to the output controlling means as the start-up electric power when starting up the power generating means.

5

Customer No. 01933

- 27. (Previously Presented) The power supply system according to claim 16, wherein the power supply system is modularized, and a physical outside shape of the power supply system has a shape and dimensions which are substantially equivalent to a shape and dimensions of a corresponding general-purpose chemical cell.
- 28. (Original) The power supply system according to claim 27, wherein the power supply system has a double-electrode terminal structure.
- 29. (Previously Presented) An electronic device connected to the power supply system according to claim 16, wherein the load operates with the supply electric power.
- 30. (Original) The electronic device according to claim 29, wherein parts except the fuel charged portion in the power supply system are integrally constituted with respect to the electronic device.
- 31. (Previously Presented) The electronic device according to claim 29, wherein the power supply system is modularized and

Customer No. 01933

at least the fuel charged portion is detachable with respect to the electronic device.

- 32. (Previously Presented) A power supply system which generates supply electric power, said power supply system comprising:
- a fuel charged portion in which power generation fuel is charged;

power generating means for generating power generation electric power by using the power generation fuel;

output controlling means for operating and stopping the power generating means; and

start-up controlling means for supplying start-up electric power used for operating the output controlling means to the output controlling means;

wherein the start-up controlling means includes a start-up power supply portion which holds predetermined electric power independently from the operation of the power generating means, and supplies the electric power from the start-up power supply portion to the output controlling means as the start-up electric power at the time of starting up the power generating means; and

wherein the start-up power supply portion includes a primary

10

15

5

10

15

20

Customer No. 01933

33. (Previously Presented) A power supply system which generates supply electric power, said power supply system comprising:

a fuel charged portion in which power generation fuel is charged;

power generating means for generating power generation electric power by using the power generation fuel;

electric power holding means for holding electric charge based on the power generation electric power generated by the power generating means; and

system controlling means for controlling operation and stopping of the operation of the power generating means and for controlling charging and stopping of the charging of the electric power holding means in accordance with a change in the held electric power;

wherein the system controlling means comprises:

output controlling means for operating and stopping the power generating means by controlling supply and shutoff of the power generation fuel to the power generating means;

a voltage monitor/control portion which outputs a first control signal which monitors a voltage component of the held electric power in the electric power holding means and controls start-up and stop of the power generating means in accordance with a change in the voltage component, and a second control

30

Customer No. 01933

signal which controls the charging and stops the charging with respect to the electric power holding means; and

start-up controlling means for controlling supply of start-up electric power used for operating the output controlling means and controlling an operation state of the power generating means based on at least the first control signal from the voltage monitor/control portion.